

# Matt JAQUIERY

## PERSONAL

My principal interests are encountering, exploring, and communicating ideas. I am especially interested in how and why people behave the way they do, and what (if any) role consciousness has to play.

Having studied literature, philosophy, and science, I feel the scientific method offers the most promising approach to providing practical explanations, though the interpretation of results frequently requires philosophical analysis, especially when working on consciousness.

These advantages of science require a vigorous and continued vigilance to ensure empirical tests are robust and informative. I am actively involved in open science, continually looking for ways to ensure my scientific output is more reliable and help others do likewise.

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[osf.io/bc9xt/](https://osf.io/bc9xt/)



[mjaquiery](https://github.com/mjaquiery)



[VerySmallDreams.com](https://www.verysmalldreams.com)



[mjaquiery](https://twitter.com/mjaquiery)

## KEY RESEARCH SKILLS

- Data analysis (inc. Big Data in R; IBM SPSS statistics package; some STATA)
- Programming (inc. R, JavaScript/CSS/HTML/VueJS, MATLAB, Python, PHP/MySQL, C/C++/C#)
- Presenting to multi-level audiences
- High-level writing skills
- In-depth knowledge of academic software (inc. MS Office, LATEX, paint.net/Imagescape)

## PUBLICATIONS

Gyurkovics, M., Kovacs, M., **Jaquiery, M.**, Palfi, B., Dechterenko, F., & Aczel, B. (2020). Registered Replication Report of Weissman, D. H., Jiang, J., & Egner, T. (2014). Determinants of congruency sequence effects without learning and memory confounds. *Attention, Perception, & Psychophysics*. <https://doi.org/10.3758/s13414-020-02021-2>

Rahnev, D., Desender, K., Lee, A.L.F., ..., **Jaquiery, M.**, ... (2020). The confidence database. *Nature Human Behaviour*, 1-8. <https://doi.org/10.1038/s41562-019-0813-1>

Chrisley, R. and **Jaquiery, M.** (2018). Trajectory change blindness: What might it tell us about the temporal character of visual experience?, paper presented to Association for the Scientific Study of Consciousness (ASSC22), Kraków, 26-9 June 2018.

### In preparation:

Dance, C., **Jaquiery, M.**, Eagleman, D.M., Porteous, D., Zeman, A., Simner, J. (*under review*). What is the relationship between Aphantasia, Synaesthesia and Autism?

Martin, A.M., Maughan, B., **Jaquiery, M.**, Barker, E.D. (*under review*). Positive father behaviour moderates the relationship between maternal depression and child behavioural and emotional problems. *British Journal of Psychiatry*.

**Jaquiery, M.** and El Zein, M. (*submitted*). Stage 1 Registered Report: How feelings of responsibility relate to outcome ownership and valence in group decisions.

Calder-Travis, J., Charles, L., **Jaquiery, M.**, Carlebach, N., Yeung, N. (*in prep*). Relative contributions of positive and negative evidence to confidence ratings.

**Jaquiery, M.** and Yeung, N. (*in prep*). Egocentric discounting as a rational response to self-other asymmetries.

## PROJECTS

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Reproducible Research Oxford – website (**Developer, Administrator, RROxStar**) –

<https://ox.ukrn.org>

ReproducibiliTea – website (**Designer, Developer, Administrator, Steering Group Member**) –

<https://reproducibiliTea.org>

Consortium for Research About Profanity – research group (**Co-founder**) – <https://crap.netlify.app>

UKRN Primer – Data sharing – **Lead Author:** <https://osf.io/wp4zu/>

UKRN Primer – Preprints – **Author:** <https://osf.io/m4zyh/>

A Crowdsourced Effort to Develop a Lab Manual Template for Social and Behavioural Scientists –

**Contributor:** <https://bit.ly/2FdVt8F>

NIRO – Non-Interventional, Reproducible, and Open Systematic Reviews – (**Web developer**) –

<https://niro-sr.netlify.app>

## AWARDS

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**2017** MRC/Oxford Experimental Psychology fully funded DPhil Studentship

**2017** The Sussex Neuroscience Prize for best MRes dissertation

## EDUCATION

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**2017-present DPhil Experimental Psychology** Oxford University

Supervisor: Nick Yeung

**2016-2017 MRes Neuroscience** University of Sussex

Grade: Distinction (83%) - Dissertation 1: 87% / Dissertation 2: 84%

**2013-2016 B.Sc. (Hons.) Neuroscience with Cognitive Science** University of Sussex

Weighted Mean: 76% - Dissertation: 87% (Dr. Ron Chrisley; Dr. Paul Graham)

**2009-2012 B.A. (Hons.) English Literature** Open University

First Class Degree

## RESEARCH EXPERIENCE

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**Exploring Social Metacognition** – Prof. **Nick Yeung**, ACC Lab, Oxford University

DPhil in Experimental Psychology (October 2017-present)

Explored the relationship between the properties of advice people receive and their preferences for seeking it. I modified or designed and built several computer-delivered behavioural tasks using MATLAB, HTML/CSS/JavaScript/PHP, and analysed the data using R and Python. I extended the results of behavioural experiments to agent-based models. We found that agreement plays a role akin to giving verifiably accurate advice when verification is not possible, but did not find evidence that this process is weighted by confidence. Open science practices were used throughout, including preregistration, sharing data, and ensuring computational reproducibility through writing the thesis in RMarkdown.

**The Eye's Mind** – Prof. **Adam Zeman**, Cognitive Neurology Research Group, Exeter University

Honorary Postgraduate Research Assistant (June-December 2016)

Developed bespoke software to process the content of thousands of aphantasia questionnaires encoded in .doc format into a data structure suitable for analysis.

<http://medicine.exeter.ac.uk/research/healthresearch/cognitive-neurology/>

**Analytical Tool Development** – Prof. **Guy Richardson** (FRS), Sussex University

(Spring 2015)

Developed and shared programs for analysing electrophysiology traces. The shared versions extracted frequency and amplitude analysis of spikes.

“Thank you for creating the spikeAnalyser and legUp programs for our 2nd year *Techniques in Neuroscience* course. I had been looking for someone who could do this for me for at least a couple of years and no-one had risen to the challenge

until you, as a student on the course, clearly realised the necessity and went off and did the job... I have no doubt we will be using your programs and the user guides you have written for many years to come.”

[g.p.richardson@sussex.ac.uk](mailto:g.p.richardson@sussex.ac.uk)

**Computational Model Visualisation Project - Dr. Thomas Wennekers**, Plymouth University

Voluntary Research Assistant (Summer 2015)

Developing a Python program to project heatmap animations from computational models of neural activity onto a 3D model of a brain.

[thomas.wennekers@plymouth.ac.uk](mailto:thomas.wennekers@plymouth.ac.uk)

## EMPLOYMENT

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**2018-present Web developer/admin** – Reproducible Research Oxford

Developing, deploying, and maintaining the web presence for Reproducible Research Oxford (<https://ox.ukrn.org>), allowing visitors interested in reproducible research practices to find relevant people and events. Involves collaboration with the wider UK Reproducibility Network.

**2017-present Research Assistant** – MultiSense (Simner & Ward) Lab, University of Sussex

Conducting research into aphantasia using a mixture of online experiments and reanalysis of large existing datasets.

**2005-2015 Web Hosting Administrator** – Self Employed

Developing, maintaining, and administrating websites, databases, and email accounts. Educating clients on the possibilities of web-based presentation and allowing them to reach informed choices about the details of their web presence. Interfacing with technical documentation, for example 3<sup>rd</sup>-party billing software.

**2008-2009 Childminder** – afterschool care, 4-6 children aged 5-11

Cooking for, listening to, and entertaining children after school. The challenges of this work were largely mollified by the intelligent and kind personalities of the children involved.

**2006-2008 GCSE/A-Level Tutor** – Various students in subjects including English and Maths

Finding new ways for struggling students to interact with and understand their work.

## TEACHING EXPERIENCE

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- Demonstrating and marking undergraduate practical experiments.
- Volunteer tutor with Oxford International Summer School providing 14-18 year old students with experience of Oxbridge tutorials. I designed and delivered a two-week course on perceptual psychology and the philosophy of mind.
- Completed divisional tutorial- and lecture-focussed training programmes.
- Tutoring and assisting undergraduate peers in their degree work to the extent permitted by university academic guidelines.
- Tutoring children and adolescents in one-to-one or small group settings on subjects including English, Maths, and Sciences.

## PUBLIC ENGAGEMENT

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- Volunteer demonstrator for Experimental Psychology stand at Ideas Festival Oxford 2018

## OTHER RELEVANT EXPERIENCE

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- **ReproducibiliTea Steering Committee**, helping maintain and develop ReproducibiliTea Open Scholarship journal clubs in universities and similar organisations around the world. Lead website developer
- **Open Science Committee** member, helping Oxford Experimental Psychology integrate reproducible and open science practices into their work and teaching

- **ReproducibiliTea** Journal Club facilitator, leading discussions on papers addressing various issues with and aspects of open and reproducible research
- **Oxford Hub Practical Support Volunteer** providing support to members of the local community, including collecting prescriptions, shopping on their behalf, and accompanying them to do their own shopping etc.
- **Psychology Football** organiser, helping schedule a weekly kickabout to provide some exercise and entertainment for hard-working psychologists and academics in related fields
- **Reproducible Research Oxford** launch event facilitator, chairing discussions and ensuring the mini conference ran smoothly
- **Monday Maths** organizer, helping bring together Oxford Experimental Psychology graduate students and ECRs with an interest in exploring mathematics
- Various **mentor roles**, including for DPhil students in Oxford Experimental Psychology and with the UNIQ+ widening participation to higher education programme
- Assisting with **organization** of the Oxford Reproducibility School 2018 conference
- **Student Rep** for Taught Postgraduate Neuroscience, 2016-17
- **Committee member** for 'University of Sussex Polymath Society', an interdisciplinary presentation and discussion forum, 2015-17
- Wrote and delivered **presentations** on a range of discussion topics for the aforementioned society

## REFERENCES

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Prof. Nick Yeung. Department of Experimental Psychology, University of Oxford

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Prof. Kevin Staras. School of Life Sciences, University of Sussex, Brighton BN1 9QG

Tel: +44 1273 678478 Email: [K.Staras@sussex.ac.uk](mailto:K.Staras@sussex.ac.uk)